

Title (en)

Compressor blade of a gas turbine engine with self-sharpening leading edge structure

Title (de)

Verdichterschaufel eines Gasturbinentriebwerks mit selbstschärfender Vorderkantenstruktur

Title (fr)

Aube de compresseur d'une turbine à gaz équipée d'une structure du bord d'attaque autoaiguisante

Publication

EP 2410132 B1 20190612 (DE)

Application

EP 11005950 A 20110720

Priority

DE 102010032097 A 20100723

Abstract (en)

[origin: EP2410132A2] The blade (1) has a strip-shaped component (3) made of wear-resistant material and possessing higher erosion wear resistance than a base material. The component is attached over a partial region of a leading edge (2) in length direction. The component is formed with a rectangular cross-section. The component is arranged on an inflow side of a profile of the blade in a partial area of a sectional surface of an inflow area with reference to a sectional plane perpendicular to radial direction, and forms the flowing front edge. The component is made of titanium aluminides.

IPC 8 full level

F01D 5/28 (2006.01); **F04D 29/02** (2006.01); **F04D 29/32** (2006.01)

CPC (source: EP US)

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